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IN THE CLAIMS

Please amend the claims as follows. This listing of claims replaces all prior versions.

1. (Currently amended) A composition comprising a mixture of components, wherein the composition is produced from intestinal and testicular tissue of a male blue crab and wherein said components comprise:
eicosane/eicosanoids
docasane/docosanoids
tetracosane/tetracosanoids
nonacosane
9-octyl-heptadecane
pentatriacontane
hexatriacontane
19-norpregn-4-ene-3,20-dione
urs-12-en-28-ol
1-tetradecanamine
4,4-dimethylcholestan-3-ol
nonadecenes
nonadecanes
1,3-diethyl urea
androst-8-en-11-one
3-benzoquinolinedione
asparagine
urethane
pentacosane/pentacosanoids
hexacosane/hexacosanoids
heneicosane/heneicosanoids
tricosane
octacosane
1-hexadecene
1,3-dimethyl-8-purin-2,6-dione
imidazoloids
morphinanones
docosenes
heneicosenes
epinephrine
traicontane
quinoline
pyrazine
pregnadiene
4,4-dimethylandrost-5-en-3.beta.ol or

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nortriptyline
or any combination thereof.

2. (Canceled).

3. (Original) The composition of claim 1, combined with a material that allows for slow release of the composition into an aqueous solution over time.

4. (Original) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 1 effective in attracting female blue crabs into the trap.

5. (New) A composition comprising a homogenous emulsion of testicular material isolated from a male blue crab, wherein the composition has activity in attracting female blue crabs to a trap.

6. (New) The composition of claim 5, further comprising a homogenous emulsion of intestinal material isolated from a male blue crab.

7. (New) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 5 effective in attracting female blue crabs into the trap.

8. (New) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 6 effective in attracting female blue crabs into the trap.